Improve Safety for Railroads and Railroad Personnel in or Near the State of WV

Project Description:

Develop and demonstrate railroad safety enhancement systems in / near the state of West Virginia including
- High-accuracy automatic train location system (HAATLS) using Internet technology
- Intelligent grade crossing system integrated with the HAATLS for passive crossings
- Self-illuminating rail car reflector
- Design criteria for a cost-effective ergonomically designed locomotive operator seat

Railroad Impact:

25% of all rail incidents in the U.S. from 1997-2004 were located in two West Virginia counties (Cabell and Kanawha)
- Reduction of the number of incidents occurring at passive grade crossing
- Improved train location knowledge
- Low-cost automobile driver alert at passive grade crossings
- Better visibility of trains
- Improved awareness of locomotive operator

FRA Task Monitor: Mike Jones, RDV32

Schedule:

- **FY04 - 06** – Design, develop, and demonstrate the four systems listed in the description
- **June 07** – Deliver final report and final research results pamphlet. (To be extended 1-year)